

SEQUENCE LISTING



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BLONDEL, BRUNO  
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ZIPETO, DONATO

<120> VECTORS DERIVED FROM ANTIBODIES FOR TRANSFERRING SUBSTANCES INTO CELLS

<130> 0660-0166-0XCONT

<140> 09/497,997

<141> 2000-02-04

<150> PCT/FR98/01740

<151> 1998-08-04

<160> 35

<170> PatentIn version 3.0

<210> 1

<211> 17

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 1

Thr	Arg	Gln	Lys	Tyr	Asn	Lys	Arg	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly
1				5					10					15	

Thr

<210> 2

<211> 17

<212> PRT

<213> Artificial/Unknown

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<223> Description of Artificial Sequence: peptide

<400> 2

Thr Arg Gln Lys Tyr Gly Lys Arg Gly Met Asp Tyr Trp Gly Gln Gly  
1 5 10 15

Thr

<210> 3

<211> 18

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 3

Thr Arg Gln Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr Trp Gly Gln  
1 5 10 15

Gly Thr

<210> 4

<211> 22

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 4

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr  
1 5 10 15

Val Lys Gly Arg Phe Thr  
20

<210> 5

<211> 21

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 5

Val Ala Tyr Ile Ser Arg Gly Gly Gly Ile Phe Tyr Tyr Glu Asp Ser

1 5 10 15

Ile Lys Gly Arg Phe  
20

<210> 6

<211> 23

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 6

Val Ala Ala Ile Ser Arg Gly Gly Gly Tyr Ser Tyr Tyr Leu Asp Ser  
1 5 10 15

Val Lys Gly Arg Phe Thr Ile  
20

<210> 7

<211> 30

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 7

Val	Ala	Tyr	Ile	Ser	Arg	Gly	Gly	Val	Ser	Thr	Tyr	Tyr	Ser	Asp	Thr
1				5					10					15	

Val	Lys	Gly	Arg	Phe	Thr	Arg	Gln	Lys	Tyr	Asn	Lys	Arg	Ala
			20					25					30

<210> 8

<211> 12

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 8

Ala	Arg	Gln	Lys	Tyr	Asn	Lys	Arg	Ala	Met	Asp	Tyr
1				5					10		

<210> 9

<211> 31

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 9

Cys Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp  
1 5 10 15

Thr Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala  
20 25 30

<210> 10

<211> 30

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 10

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr

1                      5                      10                      15  
Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala  
                    20                      25                      30

<210> 11

<211> 26

<212> DNA

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: synthetic DNA

<400> 11

gttctgacta gtgggcactc tgggct

26

<210> 12

<211> 26

<212> DNA

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: synthetic DNA



<400> 12  
gaggttcagc tcgagcagtc tggggc

26

<210> 13

<211> 26

<212> DNA

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: synthetic DNA

<400> 13  
gaggtgaagc tcgaggaatc tggagg

26

<210> 14

<211> 25

<212> DNA .

<213> Artificial/Unknown

<220>

<221> misc\_feature

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<223> Description of Artificial Sequence: synthetic DNA

<400> 14  
gaagtgcagc tcgaggagtc tgggg

25

<210> 15

<211> 26

<212> DNA

<213> Artificial/Unknown

<220>

<221> misc\_feature

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<223> Description of Artificial Sequence: synthetic DNA

<400> 15  
gaggttcagc tcgagcagtc tggagc

26

<210> 16

<211> 17

<212> PRT

<213> Artificial/Unknown

<220>

<221> misc\_feature

<222> ()..()

<223> Description of Artificial Sequence: peptide

<400> 16

Thr Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr Trp Gly Gln Gly  
1 5 10 15

Thr

<210> 17

<211> 18

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 17

Thr Arg Gln Lys Tyr Asn Lys Lys Arg Gly Met Asp Tyr Trp Gly Gln  
1 5 10 15

Gly Thr

<210> 18

<211> 18

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 18

Thr Arg Gly Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr Trp Gly Gln  
1 5 10 15

Gly Thr

<210> 19

<211> 21

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 19

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr  
1 5 10 15

Val Lys Gly Arg Phe  
20

<210> 20

<211> 22

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 20

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr  
1 5 10 15

Val Lys Gly Arg Phe Thr  
20

<210> 21

<211> 20

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 21

Val Ala Tyr Ile Ser Arg Gly Gly Ile Phe Tyr Tyr Gln Asp Ser Ile  
1 5 10 15

Lys Gly Arg Phe  
20

<210> 22

<211> 23

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 22

Val Ala Ala Ile Ser Arg Gly Gly Gly Tyr Ser Tyr Tyr Leu Asp Ser  
1 5 10 15

Val Lys Gly Arg Phe Thr Ile  
20

<210> 23

<211> 33

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 23

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr  
1 5 10 15

Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala Val Ala  
20 25 30

Tyr

<210> 24

<211> 28

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 24

Ala Ile Ser Arg Gly Gly Gly Tyr Ser Tyr Tyr Leu Asp Thr Val Lys  
1 5 10 15

Arg Thr Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr  
20 25

<210> 25

<211> 105

<212> PRT

<213> Artificial/Unknown

<220>

<221> misc\_feature

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<223> Description of Artificial Sequence: peptide

<400> 25

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser  
1 5 10 15

Ser Tyr Ala Met Ser Trp Val Arg Gln Thr Pro Ala Lys Arg Leu Glu  
20 25 30

Trp Val Ala Tyr Ile Ser Arg Gly Gly Gly Ile Phe Tyr Tyr Gln Asp  
35 40 45

Ser Ile Lys Gly Arg Phe Thr Ile Ala Arg Asp Asn Ala Lys Asn Thr  
50 55 60

Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr  
65 70 75 80

Tyr Cys Thr Arg Glu Lys Tyr Gly Lys Arg Gly Met Asp Tyr Trp Gly



85

90

95

Gln Gly Thr Ser Val Thr Val Ser Ser  
100 105

<210> 26

<211> 107

<212> PRT

<213> Artificial/Unknown

<220>

<221> misc\_feature

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<223> Description of Artificial Sequence: peptide

<400> 26

Glu Thr Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr  
1 5 10 15  
Phe Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Thr Pro Ala Lys Arg  
20 25 30  
Leu Glu Trp Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr  
35 40 45  
Ser Asp Thr Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys  
50 55 60  
Asn Thr Leu Ser Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala  
65 70 75 80  
Met Tyr Tyr Cys Ala Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr  
85 90 95  
Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser  
100 105

<210> 27

<211> 110

<212> PRT

<213> Artificial/Unknown

<220>

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<222> ()..()

<223> Description of Artificial Sequence: peptide

<400> 27

Ala Leu Val Lys Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser  
1 5 10 15  
Gly Phe Thr Phe Ser Asn Tyr Gly Met Ser Trp Val Arg Gln Thr Pro  
20 25 30  
Glu Lys Arg Leu Glu Trp Val Ala Ala Ile Ser Arg Gly Gly Tyr  
35 40 45  
Ser Tyr Tyr Leu Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp  
50 55 60  
Asn Ala Arg Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu  
65 70 75 80  
Glu Thr Ala Met Tyr Tyr Cys Ala Arg Thr Ala Arg Ala Thr Trp Asp  
85 90 95  
Trp Phe Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala  
100 105 110

<210> 28

<211> 109

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 28

Glu Leu Val Arg Gly Ala Ser Val Lys Val Ser Cys Thr Thr Ser Gly  
1 5 10 15

Phe Thr Asn Ile Lys Asp Asp Tyr Ile His Trp Val Arg Gln Arg Pro  
20 25 30

Glu Gln Gly Leu Glu Trp Ile Gly Arg Ile Asp Pro Ala Asn Gly Lys  
35 40 45

Thr Lys Tyr Ala Pro Lys Phe Gln Asp Lys Ala Thr Ile Thr Ala Asp  
50 55 60

Thr Ser Ser Asn Thr Ala Tyr Leu Gln Leu Ser Ser Leu Thr Ser Glu  
65 70 75 80

Asp Thr Ala Val Tyr Tyr Cys Ala Arg Gly Leu Thr Arg Trp Tyr Phe  
85 90 95

Asp Val Trp Gly Ala Gly Thr Thr Val Thr Leu Ser Ala  
100 105

<210> 29

<211> 109

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 29

Gly Leu Val Lys Pro Gly Ala Ser Val Lys Val Ser Cys Asn Val Ser  
1 5 10 15

Gly Tyr Ser Phe Thr Gly Tyr Phe Met Asn Trp Val Arg Gln Ser His  
20 25 30

Gly Lys Ser Leu Glu Trp Val Gly Arg Ile Asn Pro Leu Asn Gly Asp  
35 40 45

Thr Phe Tyr Asn Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp  
50 55 60

Lys Ser Ser Thr Leu Ala His Met Glu Leu Arg Leu Arg Lys Ser Glu  
65 70 75 80

Asn Ser Ala Val Tyr Tyr Cys Ala Arg Gly Leu Thr Arg Trp Tyr Phe  
85 90 95

Met Val Trp Gly Ala Gly Thr Thr Val Thr Leu Ser Ala  
100 105

<210> 30

<211> 17

<212> PRT

<213> Artificial/Unknown

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<223> Description of Artificial Sequence: peptide

<400> 30

Tyr Ile Ser Arg Gly Gly Gly Ile Phe Tyr Tyr Gln Asp Ser Ile Lys  
1 5 10 15

Gly

<210> 31

<211> 17

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 31

Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr Val Lys  
1 5 10 15

Gly

<210> 32

<211> 17

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 32

Ala Ile Ser Arg Gly Gly Gly Tyr Ser Tyr Tyr Leu Asp Ser Val Lys  
1 5 10 15

Gly

<210> 33

<211> 10

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 33

Glu Lys Tyr Gly Lys Arg Gly Met Asp Tyr  
1 5 10

<210> 34

<211> 10

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 34

Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr  
1 5 10

<210> 35

<211> 11

<212> PRT

<213> Artificial/Unknown

<220>

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<223> Description of Artificial Sequence: peptide

<400> 35

Thr Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr  
1 5 10

Al  
Cond